# Energy

31 December 2019


## Abstract

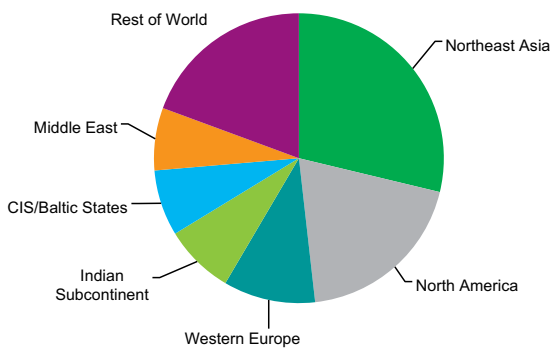
This new CEH report presents an overview of the global energy industry; it focuses on the fossil fuels (crude oil, natural gas, and coal), but also discusses nuclear energy, hydroelectric power, and renewables. Renewables include primarily wind and solar energy, but the report also touches upon geothermal, biomass, and other technologies.

The main feature of the energy world from 2019 to 2050 is an intense competition for energy market share. Suppliers of oil, natural gas, coal, nuclear power, hydroelectricity, biomass, and renewable energy compete to maintain market share or displace incumbents. By the 2030s, after several decades of competition, no source of energy will command more than 30% of global primary energy demand. This has not happened before.

Also having an impact on energy consumption are environmental pressures regarding global warming and attempts to slow greenhouse gas (GHG) emissions of carbon dioxide ($CO_2$) and other pollutants. Despite the fact that GHG emissions have slowed, the absolute level of emissions continues to increase.

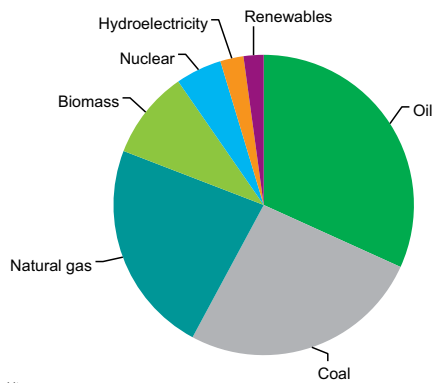
The following pie charts show world consumption of energy by region and by fuel.


**World consumption of energy by region—2019**




Source: IHS Markit © 2019 IHS Markit

**World consumption of primary energy by fuel—2019**




Source: IHS Markit © 2019 IHS Markit

This report provides IHS Markit's base case scenario. IHS Markit also tracks alternative scenarios, both more optimistic and more pessimistic, meaning there is potential for the world to move in one of these directions as well, much of which is dependent on geopolitical differences. The energy rivalry is driven by four factors: price differential, environmental concerns, technology improvements, and energy security. Alternatives loosen oil's grip on transport demand, while renewables increase competition with natural gas, coal, and nuclear in power generation.

**For more detailed information, see the table of contents, shown below.**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**IHS Markit's Chemical Economics Handbook** – ***Energy*** is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including


Global summary; regional coverage


Producers with annual capacities and plant sites


Production figures and trends


Consumption and forecasts by end use application


Manufacturing processes and environmental issues


Trade – imports and exports

## Key benefits

**IHS Markit's Chemical Economics Handbook** – ***Energy*** has been compiled using primary interviews with key suppliers and organizations, and leading representatives from the industry in combination with IHS Markit's unparalleled access to upstream and downstream market intelligence and expert insights into industry dynamics, trade, and economics.

This report can help you

- Identify trends and driving forces influencing chemical markets
- Forecast and plan for future demand
- Understand the impact of competing materials
- Identify and evaluate potential customers and competitors
- Evaluate producers
- Track changing prices and trade movements
- Analyze the impact of feedstocks, regulations, and other factors on chemical profitability

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